



Interactive Training Tool (ITT) and the MIL-STD-2525A Validation Test

31 October 1996

1-11/21/96

USASSDC





ITT and the MIL-STD-2525A Validation Test



- Automated testing will be performed using standard tactical hardware (i.e., SunSparc or HP workstations)
 - ITT supports a number of SUN workstation platforms
 - Port of ITT software is required for HP workstations
- Test will use operational software that has been instrumented for performance recording
 - ITT always does performance recording
- A description of the task (e.g., select all hostile air tracks) will be displayed on the workstation monitor
 - ITT can accomplish this via annotations on the image being displayed or as a voice-over at the time the image is being loaded

USASSDC





ITT and the MIL-STD-2525A Validation Test



- The operator will click on a Start button to present a set of symbols displayed on a map background and start the clock. The operator will select symbols that match the task and then click a Done button when finished to stop the clock
 - ITT Version 3.1 includes a begin test *Acknowledge* button that starts a timer and a *Done* button to indicate completion
 - Elapsed time and number of errors per test can then be printed or reviewed
 - Timer countdown and forced end of test could be implemented to simulate time stress during the test
- The symbology will be presented on a tactical display representative of what the operator would encounter in a joint environment
 - No ITT software modifications required

3-11/21/96

USASSDC





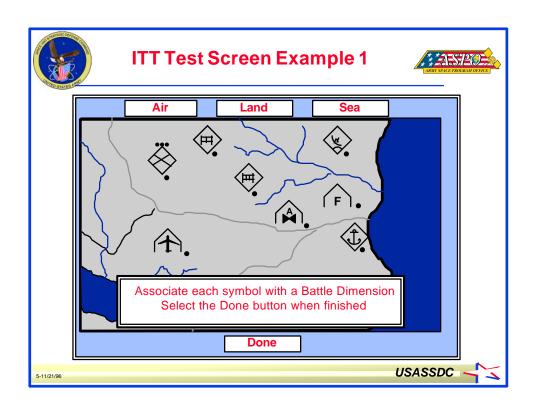
ITT and the MIL-STD-2525A Validation Test

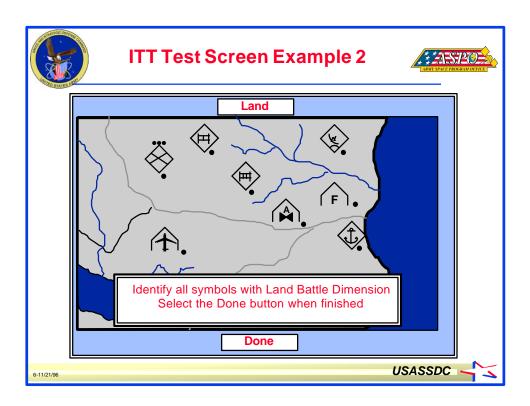


- A number of map products will be selected to represent the range of backgrounds upon which the new symbology will likely be displayed
 - Requires a substantial change to ITT software
 - The supported color set for annotations must be expanded from the current 16 colors to 32-48 colors to support ADRG map displays

USASSDC









Proposed Schedule



Months 0-2:

 Design, Code, and Test modifications to ITT V3.1 as needed to support Map Product Display, and install at the test development site

Months 3-4:

 Prepare detailed test plan, get government review and concurrence with test validity

Months 5-10:

- Govt. acquires imagery and map products for test and overlays these products with test symbol graphics
- ITT personnel incorporates Govt. provided imagery and maps (with overlays) into ITT

7-11/21/96

USASSDC





Proposed Schedule (Continued)



Month 11:

- Perform ITT Quality Assurance and Final Review procedures of completed test
- Deliver test and revised ITT software to government for acceptance

Month 12:

- Support Government during testing

USASSDC





Rough Labor Estimate



Projected Labor for Software Development/Modification:

ITT port to HP platform	11 man weeks
Additional colors for map display	4 man weeks
Countdown timer to simulate time stress	1 man week
Software support to test developers	4 man weeks
Total	20 man wooke

Projected Labor for Test Development:

Course developer	3 man weeks
Data Production	4 man weeks
Quality Assurance	2 man weeks
Management	6 man weeks
Total	15 man weeks

Total projected labor for the required tasks is 35 man weeks.

9-11/21/96

USASSDC





Rough Cost Estimate



- A rough cost estimate for the 35 man weeks of labor is \$120K
- This estimate is based on the following assumptions:
 - Govt. will provide overlaid maps and images for test
 - 80 to 100 frames of map or imagery data are adequate to administer the test
 - ITT specialists will assist with generation of the test
 - ITT personnel will play a minimal role in administering the test (i.e., will be on hand to make sure the test runs smoothly)
 - All modifications to ITT source code will be made by ITT contractor personnel

USASSDC

1